



Oklahoma

Biobased Fuels, Power, and Products State Fact Sheet

Growing a Cleaner, Stronger Economy in Oklahoma

Nearly all of the 170,000 MWh of the biomass-derived electricity generated in Oklahoma in 1999 came from wood and wood wastes, forests cover 24% of the land in the state. Along with its large forest industry, the poultry and livestock industry in Oklahoma plays an important role in the state's energy profile. Seaboard Farms, in cooperation with the City of Guymon, uses a wastewater pretreatment lagoon to recover the methane from their hog facility and pipe the methane back into the boiler at Seaboard.

Oklahoma's Alternative Fuels Program offers several financial incentives and training opportunities that directly benefit vehicle owners as well as all Oklahomans. A Public Loan Fund makes no-interest loans available to governmental agencies to either convert motor vehicle engines to use alternative fuels or to install alternative fuel facilities. Low-interest loans are also available to private and non-profit vehicle fleets for the same purpose. Serving as an example, Oklahoma Gas and Electric Company has been using biodiesel in all 600 of its diesel vehicles for two years. Tinker Air Force Base will also be making the switch to biodiesel to conform with federal requirements and estimates that it will use 50,000 gallons of biodiesel a year.

A number of research activities related to biomass are underway in Oklahoma. The U.S. Department of Agriculture is working with Oklahoma State University on the conversion of switchgrass into ethanol as well as the selection and breeding of new switchgrass varieties.

Biobased Fuels, Power, and Products in Oklahoma

Bio-Industry	Sales (\$1,000)	Employees	Capacity	Number of Facilities
Power	N/A	N/A	N/A	0
Fuels	N/A	N/A	N/A	0
Products	N/A	N/A	- -	0

N/A - no information available

- - Comparative capacity data not available among products

Federal R&D Partners

Agricultural Research Service
(El Reno)

Oklahoma State University
(Stillwater)

Primenergy, LLC
(Tulsa)

University of Central Oklahoma
(Edmond)

Biomass Resources

Corn:	250,000 acres planted 26,250,000 bushels produced
Soybeans:	415,000 acres planted 5,035,000 bushels produced
Wheat:	5,600,000 acres planted 122,100,000 bushels produced
CRP:	995,464 acres enrolled
MSW:	3,787,000 tons generated
Forest Land:	7,665,000 acres
Poultry:	230,819,000 head
Livestock:	7,690,000 head



Federally Funded Biomass RD&D in Oklahoma

Select a project
title for details

U.S. Department of Agriculture

- Plant Resources for Sustainable Forage and Biomass Production Systems
- Biomass-Based Energy Research for Selected Species
- Animal Waste Management in Semiarid Agroecosystems
- Use of Legumes in Ecologically and Economically Sound Production Systems
- The Structure of Pectins from Cotton Cell Walls
- Phenology, Population Dynamics, and Interference: A Basis for Understanding Weed Biology and Ecology
- Investigation of Ecophysical Processes Determining Productivity of Loblolly Pine
- Harvesting and Processing of Horticultural and Alternate Agricultural Commodities

U.S. Department of Energy

- Ethanol Production

For additional information on RD&D Projects, please click on the project title.

For additional information on state activities, please contact:

Regional Contact

Dave Waltzman
U.S. Department of Energy
Denver Regional Office
Phone: (303) 275-4821
Fax: (303) 275-4830
dave.waltzman@ee.doe.gov

State Contact

Brenda Williams
Oklahoma Department of
Commerce
Phone: (405) 815-6552
Fax: (405) 815-5344
Brenda_Williams@odoc.state.ok.us